

Appl. No.: 10/519,270
Reply to Office Action of: 03/24/2006

REMARKS

The specification has been amended above to overcome the examiner's objection to the disclosure.

Claims 6 and 12 have been amended above to overcome the examiner's objection to the informalities in those claims.

Claims 1-6, 8, 10-12, 14 and 16 were rejected under 35 U.S.C. §102(b) as being anticipated by Duesman et al. (US 6,217,232 B1). Claims 7, 9, 13 and 15 were rejected under 35 U.S.C. §103(a) as being unpatentable over Duesman et al. (US 6,217,232 B1). The examiner is requested to reconsider these rejections.

Claim 1 has been amended above to clarify applicants' claimed invention. Claim 1 claims a method that includes arranging the stud bumps at least partially in the optic fibre hole. Duesman et al. discloses posts 18, but they are not located in the optic fiber channel 24. There is no disclosure or suggestion in Duesman et al. of posts 18 being arranged into the channel 24. Claim 1, on the other hand, claims that the stud bumps at least partially in the optic fibre hole.

Duesman et al., including its problems, is described in the background section of the present patent application. Forming the V-shape groove and the posts and recesses in Duesman et al. are generally performed by different processes which may cause alignment errors between the V-shape groove and the posts and recesses. Especially when the V-shape groove has a relatively large width and depth, the alignment error

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increases and the coupling between the optoelectronic device and the optic fiber is poor.

The object of the present invention, on the other hand, is to eliminate the disadvantages of Duesman et al. and to provide a new method for mounting an optic or electronic component on a substrate and especially aligning an optic fibre with the component with improved aligning accuracy. The object of the present invention is also to provide a new arrangement for mounting an optic or electronic component on a substrate and especially aligning an optic fibre with the component with improved aligning accuracy. For the invention as claimed in claim 1, this is accomplished including arranging the stud bumps at least partially in the optic fibre hole. The features of claim 1 are not disclosed or suggested in the art of record. Therefore, claim 1 is patentable and should be allowed.

Though dependent claims 2-9 contain their own allowable subject matter, these claims should at least be allowable due to their dependence from allowable claim 1. However, to expedite prosecution at this time, no further comment will be made.

Claim 10 has been amended above to clarify applicants' claimed invention. Claim 10 claims that the arrangement comprises at least three stud bumps arranged on the surface of the component located at least partially in the optic fibre hole. As noted above with respect to claim 1, Duesman et al. discloses posts 18, but they are not located in the optic fiber channel 24. There is no disclosure or suggestion in

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Duesman et al. of posts 18 being arranged into the channel 24. Claim 10, on the other hand, claims that the stud bumps are arranged on the surface of the component located at least partially in the optic fibre hole. The features of claim 10 are not disclosed or suggested in the art of record. Therefore, claim 10 is patentable and should be allowed.

Though dependent claims 11-16 contain their own allowable subject matter, these claims should at least be allowable due to their dependence from allowable claim 10. However, to expedite prosecution at this time, no further comment will be made.

Claims 17-20 have been added above to claim the features recited therein.

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record. Accordingly, favorable reconsideration and allowance is respectfully requested. Should any unresolved issue remain, the examiner is invited to call applicants' attorney at the telephone number indicated below.

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Respectfully submitted,

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June 26, 2006
Date

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